IN THE CLAIMS

Please amend the claims as follows:

- (Cancelled)
- 2. (Currently Amended) A method of stimulating [[an]] a CD8⁺ cytotoxic T cell immune response to an antigenic peptide *in vivo*, said method comprising:

contacting a-cell an antigen presenting cell selected from a macrophage and a dendritic cell with said antigenic peptide and with a photosensitizing agent ex vivo, wherein said peptide and said agent are each taken up into an intracellular membrane-restricted compartment of said cell;

irradiating said cell *ex vivo* with light of a wavelength effective to activate the photosensitizing agent, such that the membrane of said intracellular compartment is disrupted, releasing said peptide into the cytosol of the cell, without killing the cell;

wherein said released antigenic peptide, or a part thereof of sufficient size to stimulate a cytotoxic T cell response, is subsequently presented on the surface of said cell by a class I MHC molecule:

administering the cell to a mammal after irradiating said cell to thereby stimulate the in v(v) immune response to the antigenic peptide; and

wherein the photosensitizing agent is selected from the group consisting of a porphyrin, phthalocyanine and a chlorin.

- (Cancelled).
- (Previously Presented) The method of claim 2, wherein the antigenic peptide is a vaccine antigen or vaccine component.
- 5-7. (Cancelled).

- (Previously Presented) The method of claim 2 wherein the photosensitizing agent is 8. meso-tetraphenylporphine with 4 sulfonate groups (TPPS4), meso-tetraphenylporphine with 2 sulfonate groups on adjacent phenyl rings (TPPS2a), or aluminum phthalocyanine with 2 sulfonate groups on adjacent phenyl rings (AlPcS2a).
- (Previously Presented) The method of claim 2, wherein the antigenic peptide and/or 9. photosensitizing agent is bound to one or more targeting agents or carrier molecules.
- 10 -27. (Canceled).
- 28. (Previously Presented) The method of claim 2, wherein at least 90% of the cells are not killed.
- 29. (Previously Presented) The method of claim 2, wherein at least 95% of the cells are not killed.
- (Previously Presented) The method of claim 2, wherein the photosensitizing 30. agent is a sulfonated tetraphenylporphine, a disulfonated aluminum phthalocyanine or a tetrasulfonated aluminum phthalocyanine.
- 31-42. (Canceled).
- (Currently Amended) A method of stimulating [[an]] a CD8+ cytotoxic T cell immune 43. response to an antigenic peptide in vivo, said method comprising:
- contacting a cell an antigen presenting cell selected from a macrophage and a dendritic cell in a patient with an antigenic peptide and with a photosensitizing agent in vivo, wherein said peptide and said agent are each taken up into an intracellular membrane-restricted compartment of said cell;

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irradiating said cell with light of a wavelength effective to activate the photosensitizing agent, such that the membrane of said intracellular compartment is disrupted, releasing said peptide into the cytosol of the cell, without killing the cell;

wherein said released antigenic peptide, or a part thereof of sufficient size to stimulate a cytotoxic T cell response, is subsequently presented on the surface of said cell by a class I MHC molecule;

wherein presentation of the antigenic peptide, or part thereof, on the surface of said cell results in stimulation of the immune response specific for said antigenic peptide or a part thereof; and

wherein the photosensitizing agent is selected from the group consisting of a porphyrin, phthalocyanine and a chlorin.

- (Previously Presented) The method of claim 43, wherein the antigenic peptide is a 44. vaccine antigen or vaccine component.
- 45. (Previously Presented) The method of claim 43, wherein the photosensitizing agent is meso-tetraphenylporphine with 4 sulfonate groups (TPPS₄), meso-tetraphenylporphine with 2 sulfonate groups on adjacent phenyl rings (TPPS2a), or aluminum phthalocyanine with 2 sulfonate groups on adjacent phenyl rings (AlPcS2a).
- 46. (Previously Presented) The method of claim 43, wherein the antigenic peptide and/or photosensitizing agent is bound to one or more targeting agents or carrier molecules.
- (Previously Presented) The method of claim 43, wherein at least 90% of the cells are not 47. killed.
- (Previously Presented) The method of claim 43, wherein at least 95% of the cells are not 48. killed.

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49. (Previously Presented) The method of claim 43, wherein the photosensitizing agent is a sulfonated tetraphenylporphine, a disulfonated aluminum phthalocyanine or a tetrasulfonated aluminum phthalocyanine.

50. (Canceled)

Title: METHOD OF VACCINATION

- 51. (Canceled)
- 52. (Canceled)